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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : John C. Harvey and
James W. Cuddihy
Serial No. : 08/447,447 ✓
Docket No. : 5634.140
Filed : May 23, 1995
For : SIGNAL PROCESSING APPARATUS AND METHODS
Group Art Unit : 2611
Examiner : Bhavesh M. Mehta

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Technology Center 2600

Commissioner for Patents
Washington, D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, applicants respectfully request consideration of the references listed on the attached citation form. This Supplemental Information Disclosure Statement replaces the Supplemental Information Disclosure Statement filed June 18, 2002, in the above captioned application. The June 2002 Supplemental IDS was filed under 37 C.F.R. 1.98(c)(1). However, it has come to my attention that some references designated by the June 2002 Supplemental IDS may have been known to individuals associated with the filing or prosecution of this application as

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defined in 37 C.F.R. § 1.56(c) more than three months prior to June 18, 2002.

Accordingly, I hereby withdraw any statement to the contrary made in the June 2002

Supplemental IDS and submit the instant Supplemental IDS under 37 C.F.R. § 1.98(c)(2).

A check for \$180.00 accompanies this submission. Please charge any additional fees or credit any overpayment to Deposit Account Number 06-1075.

The attached citation form includes each and every reference designated in the citation form submitted with the June 2002 Supplemental IDS. The attached citation form also includes additional references that have been asserted against applicants' related issued patents and additional references that have been cited by the Office in applicants' copending applications.

Applicants respectfully request that the Examiner consider the references cited and that the Examiner indicate that the references have been considered in this application by returning a copy of the citation form with the Examiner's initials in the left column per M.P.E.P. § 609.

Pursuant to an agreement reached between the Office and applicants (see first Office Action issued in this application), applicants are to file copies of prior art only once. One copy of the additional references was submitted with the information disclosure statements filed February 7, 2003, in applicants' copending Application Number 08/487,526 (Atty. Dkt. No. 5634.355).

"Eine Neue Generation Mikroprozessorgesteuerter Datensender Und -Empfänger Für Alle Varianten Der Datenübertragung In Der V-Lücke Des Fernsehsignals", by A. Ebner and K. Schuster, Rundfunktechnische Mitteilungen, Vol. 26, No. 5, pp. 215-220, is a German language article related to data transmitters and receivers that can be adapted by

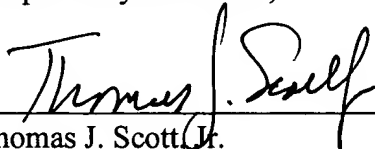
microcomputer control to given variants of data transmission. "Codifica Numerica Del Segnale Sonoro - Interfaccia Per Gli Apparati Professionali" by M. Barbero and M. Occhiena, Elettronica e Telecomunicazioni, Vol. 34, No. 5, pp. 209- 216, October, 1985, is an Italian language article related to interface specifications for the interconnection of digital audio equipment within a broadcasting complex. Both of these articles include English summaries.

Japanese patent document 62-12285 is related to a teletext receiving device. Japanese patent document 61-236284 is related to a character signal receiver. Both of these Japanese documents were cited by the Office to applicants in copending Application Serial Number 08/479,374 (Atty. Dkt. No. 5634.148) without corresponding English translations. Applicants provided translations of these Japanese patent documents with the amendment filed March 6, 2003, in Application Serial Number 08/479,374.

As noted above, the references cited herein have been asserted against applicants' related issued patents or cited in applicants' copending applications. In accordance with 37 C.F.R. § 1.97, applicants do not admit that each and every reference cited herein is considered to be material to patentability or to be prior art.

Date: March 14, 2003
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Respectfully submitted,



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| <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>CITATION FORM</p> <p>RECEIVED MAR 14 2003 UNITED STATES PATENT OFFICE</p> | Attorney Docket No. | Serial No. |
| | 05634.140 | 08/447,447 |
| | Applicant(s) John C. Harvey and James W. Cuddihy | |
| | Filing Date May 23, 1995 | Group Art Unit 2611 |

UNITED STATES PATENT DOCUMENTS

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|--------------------|--------------------|-----------------|
| | Re 26,331 | 1/9/68 | Brothman et al. | | |
| | Re 33,189 | 3/27/90 | Lee et al. | | |
| | 2,117,638 | 5/17/38 | Walter | | |
| | 3,368,031 | 2/6/68 | Eisele | | |
| | 3,387,082 | 6/4/68 | Farber et al. | | |
| | 3,387,083 | 6/4/68 | Farber et al. | | |
| | 3,390,234 | 6/25/68 | Glidden | | |
| | 3,430,004 | 2/25/69 | Shenk | | |
| | 3,475,547 | 10/28/69 | Sarlund | | |
| | 3,478,342 | 11/11/69 | Alldritt et al. | | |
| | 3,588,357 | 6/28/71 | Sellari | | |
| | 3,624,516 | 11/30/71 | Rando et al. | | |
| | 3,737,858 | 6/5/73 | Turner et al. | | |
| | 3,813,482 | 5/28/74 | Blonder | | |
| | 3,842,206 | 10/15/74 | Barselloti et al., | | |
| | 3,858,240 | 12/31/74 | Golding et al. | | |
| | 3,898,378 | 8/5/75 | Hinoshita et al. | | |
| | 3,899,639 | 8/12/75 | Cleveley et al., | | |
| | 3,922,492 | 11/25/75 | Lumsden | | |
| | 3,936,593 | 2/3/76 | Aaronson et al., | | |
| | 3,958,088 | 5/18/76 | Vieri | | |
| | 3,962,535 | 6/8/76 | Haskell | | |
| | 3,971,888 | 7/27/76 | Ching et al. | | |
| | 3,974,451 | 8/10/76 | Maeder | | |
| | 3,988,550 | 10/26/76 | Ts'ao | | |
| | 4,006,297 | 2/1/77 | Koga | | |
| | 4,011,414 | 3/8/77 | Warren | | |
| | 4,027,100 | 5/31/77 | Ishiguro | | |
| | 4,031,543 | 6/21/77 | Holz | | |
| | 4,045,811 | 8/30/77 | Dingwall | | |
| | 4,045,814 | 8/30/77 | Hartung | | |
| | 4,047,221 | 9/6/77 | Yasuda et al. | | |
| | 4,056,684 | 11/1/77 | Lindstrom | | |
| | 4,060,832 | 11/29/77 | Devimeux et al. | | |
| | 4,061,577 | 12/6/77 | Bell | | |
| | 4,068,265 | 1/10/78 | Russell | | |
| | 4,118,669 | 10/3/78 | Fung | | |
| | 4,141,034 | 2/20/79 | Netravali et al. | | |
| | 4,148,070 | 4/3/79 | Taylor | | |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|--------------------|--------------------|-----------------|
| | 4,189,748 | 2/19/80 | Reis | | |
| | 4,195,288 | 3/25/80 | Morton | | |
| | 4,196,448 | 4/1/80 | Whitehouse et al. | | |
| | 4,201,887 | 5/6/80 | Burns | | |
| | 4,203,166 | 5/13/80 | Ehrsam et al. | | |
| | 4,215,369 | 7/29/80 | Yukihiko Iijima | | |
| | 4,217,609 | 8/12/80 | Hatori et al. | | |
| | 4,218,697 | 8/19/80 | Leventer | | |
| | 4,222,073 | 9/9/80 | Hirashima | | |
| | 4,224,678 | 9/23/80 | Lynch et al. | | |
| | 4,238,853 | 12/9/80 | Ehrsam et al. | | |
| | 4,238,854 | 12/9/80 | Ehrsam et al. | | |
| | 4,258,423 | 3/24/81 | Lane et al. | | |
| | 4,271,506 | 6/2/81 | Broc et al. | | |
| | 4,302,775 | 11/24/81 | Widergren et al. | | 12/15/78 |
| | 4,306,250 | 12/15/81 | Summers et al. | | 8/18/80 |
| | 4,318,126 | 3/2/82 | Sassler | | 4/2/80 |
| | 4,318,127 | 3/2/82 | Fukuda et al. | | 8/1/80 |
| | 4,318,128 | 3/2/82 | Sauvanet | | 7/15/80 |
| | 4,333,107 | 6/1/82 | McGuire et al. | | 5/3/79 |
| | 4,357,548 | 11/2/82 | Preslar | | 5/30/80 |
| | 4,358,790 | 11/9/82 | Summers | | 4/18/80 |
| | 4,369,462 | 1/18/83 | Tornizawa et al. | | 8/15/80 |
| | 4,369,464 | 1/18/83 | Temime | | 7/8/80 |
| | 4,375,650 | 3/1/83 | Tiemann | | 4/29/81 |
| | 4,381,562 | 4/26/83 | Acampora | | 5/1/80 |
| | 4,419,699 | 12/6/83 | Christopher et al. | | |
| | 4,420,833 | 12/13/83 | Noirel | | 9/22/80 |
| | 4,514,761 | 4/30/85 | Merrell et al | | |
| | 4,534,024 | 8/6/85 | Maxemchuk et al. | | |
| | 4,600,942 | 7/15/86 | Field et al. | | |
| | 4,658,292 | 4/14/87 | Okamoto et al. | | |
| | 4,695,880 | 9/22/87 | Johnson et al. | | 7/30/85 |
| | 4,713,837 | 12/15/87 | Gordon | | 12/24/85 |
| | 4,736,420 | 4/5/88 | Katznelson et al | | 9/19/86 |
| | 4,777,354 | 10/11/88 | Thomas | | 1/27/86 |
| | 4,780,910 | 10/25/88 | Huddleston et al. | | 10/24/85 |
| | 4,908,859 | 3/13/90 | Bennett et al | | |
| | 4,930,160 | 5/29/90 | Vogel | | |
| | 4,937,821 | 6/26/90 | Boulton | | |
| | 5,099,348 | 3/24/92 | Huddleston et al. | | |
| | 3,472,962 | 10/14/69 | Sanford | | |
| | 4,034,990 | 7/12/77 | Baer | | |
| | 4,247,106 | 1/27/81 | Jeffers et al | | |
| | 4,359,223 | 11/16/82 | Baer et al | | 11/01/79 |
| | 4,460,922 | 7/17/84 | Ensinger et al | | |
| | 4,533,943 | 8/6/85 | Poirier | | |
| | 4,580,779 | 4/8/86 | Kanamaru et al | | |

| EXAMINER INITIAL | PATENT NUMBER | PATENT DATE | NAME | CLASS/ SUBCLASS | FILING DATE* |
|---------------------|------------------|----------------|----------------|--------------------|-----------------|
| | 4,695,879 | 9/22/87 | Weinblatt | | 2/7/86 |
| | 4,716,588 | 12/29/87 | Thompson et al | | 10/29/85 |
| | 4,751,578 | 6/14/88 | Reiter et al | | 5/28/85 |

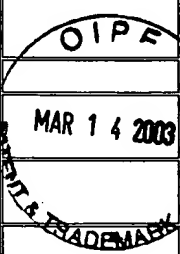
* If Pertinent

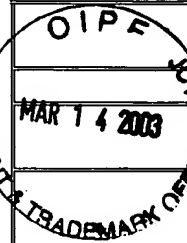
FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS/ SUBCLASS | TRANSLATION YES NO |
|---------------------|--------------------|---------------------|----------------|--------------------|-----------------------|
| | GB 2 155 283 | 9/18/83 | United Kingdom | | |
| | JP 56116385 | 9/12/81 | Japan | | X |
| | JP 62060378 | 3/17/87 | Japan | | X |
| | 61-236284 | 10/1986 | Japan | | X |
| | 62-12285 | 1/1987 | Japan | | X |
| | DE 33 28 001 | 2/14/85 | Germany | | X |
| | DE 33 35 082 | 4/11/85 | Germany | | X |

OTHER DOCUMENTS

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|---------------------|---|
| | CHORAFAS, "Interactive Videotex: The Domesticated Computer," 1981, Petrocelli Books, New York |
| | HINTON, "Character rounding for the Wireless Word Teletex Decoder," Wireless World, Nov. 1978, pp. 49-53, Vol. 84 No. 1515, IPC Business Press, United Kingdom |
| | KRUGER, "Speicherfernsehen, Das Digitale Kennungssystem ZPS," Proceedings 9 th International Congress Microelectroncis, pp. 39-45 |
| | "Fernsehempfang rund um die Uhr" Funk Technik, Mar. 1981, Vol 36 |
| | "Method for the Transmission of Additional Information," German Patent Application submitted by Blaupunkt Werke GMBH, filed May 31, 1980 |
| | "Eine Neue Generation Mikroprozessorgesteuerter Datensender Und -Empfänger Für Alle Varianten Der Datenübertragung In Der V-Lücke Des Fernsehsignals", A. Ebner and K. Schuster, Rundfunktechnische Mitteilungen, Vol. 26, No. 5, pp. 215-220 |
| | "A Novel Television Add-On Data Communication System", January, 1974, Patrick T. King, Society of Motion Picture and Television Engineers Journal, Vol. 83 |
| | "Actual Two-Way Systems," Ronald K. Jurgan, IEEE Spectrum, November 1971 |
| | "Additional Information Within the Television Signal", September 1970, R. A. O'Connor, , Journal of the Society of Motion Picture and Television Engineers, Vol. 79, No. 9, p. 824 |
| | "Applications of Information Networks," J.C.R. et al, Proceedings of the IEEE, Vol. 66, No. 11, pp. 1330-1346, November 1978 |
| | "Automated Control Units for Advertising On Cable," G. Morgan, Image Technology, Vol. 68, No. 9, pgs. 457, 460, September 1986 |
| | "Coded Information Within the Picture Area", February, 1974, Wilton R. Holm, , Society of Motion Picture and Television Engineers Journal, Vol. 83 |
| | "Color Decode a PCM NTSC Television Signal", June, 1974, John P. Rossi, , Society of Motion Picture and Television Engineers Journal, Vol. 83 |
| | "Comparison of Technology and Capital Costs of New Home Services," Metin B. Akgun, IEEE Transactions on Cable Television, Vol. CATV-5, No. 3, July 1980 |
| | "Codifica Numerica Del Segnale Sonoro - Interfaccia Per Gli Apparati Professionali", October, 1985, M. Barbero and M. Occhiena, Elettronica e Telecomunicazioni, Vol. 34, No. 5, pp. 209- 216 |
| | "Encryption-based security systems", 5/29/87-6/1/87, Wechselberger, , NCTA Convention Records pp. 148-152 |

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|--|--|
|  | "Experiences with Pilot Projects in North America, Japan, and Europe", 1977, Eds. W. Kaiser, H. Marko, and E. Witte, Two-Way Cable Television |
| | "Going for The Microcomputer Market with Commercial Telesoftware", 1982, M. Shain, Viewdata 82 |
| | "Hard encrypted video & audio television system", 3/15/86-3/18/86, Jeffers, Glaab & Griffin, NCTA Convention Records pp. 232-234 |
| | "Hybrid Addressability," Stubbs & Holobinko, National Cable Television Association Convention, pp. 255-265, 6/3/-6/6/1984 |
| | "Individualized Still-Picture Communication on a Two-Way Broad-Band CATV System," Koji Maeda, IEEE Transactions on Communications, Vol. COM-23, No. 1, January 1975 |
| | "Low Cost Interactive Home TV Terminal," Stetten & Mason, National Cable Television Association Convention, pp. 49-53, 7/6-7/9/1971 |
| | "Measurement and Control of TV Transmitters," Shelley and Smart, Society of Motion Picture and Television Engineers Journal, Vol. 80, November 1971 |
| | "Off Premises Addressability," Preschutti, National Cable Television Association Convention, pp. 48-57, 6/2-6/5/1985 |
| | "On Distributed Communications," Paul Baran, The RAND Corporation, Volumes 1-10 |
| | "Operational Implementation of a Broadcast Television Frame Synchronizer", March, 1975, Robert J. Butler, Society of Motion Picture and Television Engineers Journal, Vol. 84 |
| | "Pilot Two-Way CATV Systems," Ernest K. Smith, IEEE Transactions on Communications, Vol. COM-23, No. 1, January 1975 |
| | "Some Methods of Automatic Analysis of Television Test Signals", December 1971, R. H. Vivian, Society of Motion Picture and Television Engineers Journal, Vol. 80 |
| | "SRS El Segundo Interim Test Report," Callais, National Cable Television Association Convention, pp. 384-407, 5/14-5/17/1972 |
| | "Status Monitoring System," Hale, National Cable Television Association Convention, pp. 153-158, 1974 |
| | "Television Applications and Transmission of Digital Data in the Vertical Blanking Interval", 1980, J. J. Lopinto, ITC/USA/80, International Telemetering Conference, P. 650, pp. 345-349 |
| | "Television Central," Society of Motion Picture and Television Engineers Journal, Vol. 85, October 1976 |
| | "The Digital Video Effects System," Patten, Society of Motion Picture and Television Engineers Journal, Vol. 87, April 1978 |
| | "The Magnavox Premium TV System," Forbes & Cooley, National Cable Television Association Convention, pp. 100-104, 6/17-6/20/1973 |
| | "The Subscriber Response System," Durfee & Callais, National Cable Television Association Convention, pp. 28-48, 7/6-7/9/1971 |
| | "TV Frame Synchronizer," Kano, et al., Society of Motion Picture and Television Engineers Journal, Vol. 84, March 1975 |
| | "Two-Way Coax TV System Handles All Communication Needs," George F. Benton, Communications News, April 1975 |
| | "Use of Low Frequency Bi-Directional Digital Transmission On Cable," Ellis, National Cable Television Association Convention, pp. 38-45, 4/17-4/20/1977 |
| | "Videotex & Teletext," Technical Panel, National Cable Television Association Convention, pp. 160-184, 6/12-6/15/1983 |
| | "Videotex Networks," J. Stynen and M. Keymolen, Revue HF, Vol. 1, No. 12, pgs. 413-424, 1981 |
| | "Videotex Technologies," Technical Panel, National Cable Television Association Convention, pp. 99-123, 5/29-6/1/1981 |
| | DAS DIGITALES FERNSEHKENNUNGSSYSTEM ZPS, H. Eckhard Krüger, ntz Bd. 35 (1982) Heft 6 ("THE DIGITAL TELEVISION IDENTIFICATION SYSTEM ZPS," ntz, Vol. 35, No. 6, 1982, pgs. 368-376) |
| | DIGITALES KENNUNGSSYSTEM ZPS, Dr. H. E. Krüger, Forderungsvorhaben TK 0054/3 ("DIGITAL IDENTIFICATION SYSTEM ZPS," Dr. H. E. Krüger, Research Project TK 0054/3, Final Report, October 1, 1978 to October 31, 1979) |
| | Hi-OVIS Development Project, M. Kawahata, Presented in Two-Way Cable Television, Experiences with Pilot Projects in North America, Japan and Europe, Proceedings of a Symposium Held in Munich, April 27-29, 1977, pages 135-142 |

| EXAMINER INITIAL | AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC. |
|--|---|
|  | Kinghorn, J.R., 11/00/85, "Using Extensions to World System Teletext," IEEE Transactions on Consumer Electronics, Vol. CE-31, No. 4, pp. 661-666 |
| | The Videotex and Teletext Handbook, Hurly et al., Harper and Row Publishers, Inc., 1985 |
| | Two-Way Applications for Cable Television Systems in the '70s, Ronald K. Jurgen, Editor, IEEE Spectrum, Nov. 1971 |
| | VEREINBARUNG ZVEI/ARD/ZDF ZUR ZRD/ZDF/ZVEI - TICHTLINIE "VIDEO-PROGRAMM-SYSTEM (VPS)," ARD/ZDF, December 4, 1984 (MEMORANDUM OF UNDERSTANDING ZVEI/ARD/ZDF ON THE ARD/ZDF/ZVEI GUIDELINE FOR A "VIDEO PROGRAMMING SYSTEM (VPS)") |
| | VIDEOPROGRAMMSYSTEM DER 2. GENERATION, Von Gunther Stacker, net 40 (1986), Heft 7/8 ("SECOND-GENERATION VIDEO PROGRAMMING SYSTEMS," Von Gunther Stacker, net Vol. 7/8 No. 40 (1986), pgs. 311-315) |
| | VIDEOTEXT PROGRAMMIERT VIDEOHEIMERATE (VPV), Gerhard Eitz, Karl-Ulrich Oberlies, Fundfunktechnische Mitteilungen, Jahrg. 30 (1986), H. 5 ("VCR PROGRAMMING VIA TELETXT") |
| | VIDEOTEXT PROGRAMMIERT VIDEORECORDER, Von Gunther Hofmann, Andreas Neuman, Karl-Ulrich Oberlies and Eckhard Schadwinkel, Rundfunktech Mitteilunger, Jahrg. 26 (1982) H. 6 ("VIDEOTEXT PROGRAMS VIDEO RECORDER") |
| | VIDEOTEXT UND BILDSCHIRMTEXT MIT DEN LSI-SCHALTUNGDN SAA 5020, SAA 5030, SAA 5041 UND SAA 5051, Valvo, Technische Information fur die Industrie, April 1980 ("VIDEOTEXT AND INTERACTIVE VIDEOTEX WITH THE LSI-CIRCUITS SAA 5020, SAA 5030, SAA 5041 AND SAA 5051) |
| | Viewdata: A Public Information Utility, Second Edition, 1980, Dr. Adrian V. Stokes |
| | WUNSCHPROGRAMM AUS DER FERNSEHZEITSCHRIFT, Funkschau 12/1981, pgs. 6070 ("RECORDING PROGRAMS FROM THE PROGRAM GUIDE," Funkschau 12/1982, pgs. 60-70) |

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| EXAMINER | DATE CONSIDERED |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s). | |